

EXHIBIT 29
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CONTOUR PROTECTION
Four Him Enterprises, LLC
Potosi, MO

The proposed KHZR facilities are short spaced to two stations under the separation requirements outlined in Section 73.207 of the FCC Rules:^{1,2}

WQUL	West Frankfort, IL	Channel 249A
KYKY	St. Louis, MO	Channel 251C1

The short spacing to WQUL is permitted by Section 73.215 of the FCC Rules, so long as the necessary contour protection is provided to WQUL. This short spacing does comply with the table in Section 73.215(e) of the FCC Rules, which specifies the minimum separation at which contour protection may be employed. Since WQUL operates on the same channel as the proposed KHZR facilities, Section 73.215 of the FCC Rules states that there can be no overlap between the 60 dBu contour for the proposed KHZR facilities and the 40 dBu contour for WQUL. Furthermore, there can be no overlap between the WQUL 60 dBu contour and the proposed KHZR 40 dBu contour. Pursuant to Section 73.215(b)(2)(ii) of the FCC Rules, the contour projections for WQUL assume operation with an effective radiated power of 6 kilowatts at 100 meters above

¹The data contained in the FCC's Consolidated Database System ("CDBS") appears to indicate that the proposed KHZR facilities are also short spaced to a vacant allotment on Channel 247A in Arcadia, Missouri. This appears to be the result of a database error, however, as the *Report and Order* in MM Docket 97-168 allotted Channel 280A to Arcadia, and not Channel 247A, which was an alternate proposal in this proceeding. This was confirmed by the FCC in their March 17, 2000 *Memorandum Opinion and Order* in MM Docket 97-168, which clarified this situation by correcting a typographic error in the original *Report and Order* in this proceeding. This is further confirmed by the fact that KTNX presently holds a construction permit (BNPH-20050103AEV) for operation on Channel 280A in Arcadia.

²The proposed KHZR facilities are also short spaced to the presently licensed facilities of KDAA - Rolla, Missouri on FM Channel 248A. The *Report and Order* in MM Docket 01-151, which allotted Channel 249C2 to Potosi, Missouri for use by KHZR also allotted Channel 276A to Rolla for use by KDAA to accommodate the allotment of Channel 249C2 to Potosi. As a result, this short spacing to the presently licensed KDAA facilities should not be an impediment to the grant of the attached application.

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average terrain, the maximum facilities permitted for a Class A station. Terrain data from the NGDC 30 second terrain database was used in projecting the WQUL contours.

The short spacing to KYKY is also permitted by Section 73.215 of the FCC Rules, so long as the necessary contour protection is provided to KYKY. This short spacing also complies with the table in Section 73.215(e) of the FCC Rules which specifies the minimum separation at which contour protection may be employed. Since KYKY operates on a second adjacent channel to the proposed KHZR facilities, Section 73.215 of the FCC Rules states that there can be no overlap between the 60 dBu contour for the proposed KHZR facilities and the 100 dBu contour for KYKY. Furthermore, there can be no overlap between the KYKY 60 dBu contour and the proposed KHZR 100 dBu contour. Pursuant to Section 73.215(b)(2)(ii) of the FCC Rules, the contour projections for KYKY assume operation with an effective radiated power of 100 kilowatts at 299 meters above average terrain, the maximum facilities permitted for a Class C1 station. Terrain data from the NGDC 30 second terrain database was also used in projecting the KYKY contours.

Tables 29.0(a) and 29.0(b) present the projections of the appropriate contours for WQUL assuming an antenna height of 237 meters above mean sea level. Tables 29.1(a) and 29.1(b) present the appropriate contours for KYKY assuming an antenna height of 452 meters above mean sea level. Finally, Tables 29.2(a) through 29.1(c) present the projections of the appropriate contours for the proposed KHZR facilities. These contours were projected using the actual proposed operating facilities and ter-

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rain data extracted from the NGDC 30 second terrain database. Figure 29.0 shows all of these contours on an appropriate map base. As can be seen from this figure, no prohibited contour overlap will occur between the proposed KHZR facilities and either of these other two stations. Thus, the proposed KHZR facilities will provide the required contour protection to both WQUL and KYKY, pursuant to Section 73.215 of the FCC Rules.

WQUL CH249A
60.0 dBu CONTOUR
(F(50,50) Curves Utilized)

BEARING (Degrees)	AVERAGE TERRAIN ELEVATION (meters)	ANTENNA HAAT (meters)	HORIZONTAL ERP (dBk) (kW)		DISTANCE TO CONTOUR (km)
0.0 *	126.3	110.7	7.78	6.000	29.7
10.0	132.1	104.9	7.78	6.000	28.9
20.0	137.8	99.2	7.78	6.000	28.2
30.0	140.1	96.9	7.78	6.000	27.9
40.0	143.6	93.4	7.78	6.000	27.4
45.0 *	145.9	91.1	7.78	6.000	27.1
50.0	148.4	88.6	7.78	6.000	26.7
60.0	153.0	84.0	7.78	6.000	26.1
70.0	150.3	86.7	7.78	6.000	26.5
80.0	148.8	88.2	7.78	6.000	26.7
90.0 *	147.1	89.9	7.78	6.000	26.9
100.0	143.4	93.6	7.78	6.000	27.4
110.0	144.2	92.8	7.78	6.000	27.3
120.0	139.2	97.8	7.78	6.000	28.0
130.0	138.9	98.1	7.78	6.000	28.0
135.0 *	141.5	95.5	7.78	6.000	27.7
140.0	142.1	94.9	7.78	6.000	27.6
150.0	142.4	94.6	7.78	6.000	27.6
160.0	148.2	88.8	7.78	6.000	26.7
170.0	144.5	92.5	7.78	6.000	27.3
180.0 *	142.9	94.1	7.78	6.000	27.5
190.0	141.3	95.7	7.78	6.000	27.7
200.0	147.9	89.1	7.78	6.000	26.8
210.0	138.5	98.5	7.78	6.000	28.1
220.0	132.9	104.1	7.78	6.000	28.8
225.0 *	131.4	105.6	7.78	6.000	29.0
230.0	129.9	107.1	7.78	6.000	29.2
240.0	128.6	108.4	7.78	6.000	29.4
250.0	128.6	108.4	7.78	6.000	29.4
260.0	131.6	105.4	7.78	6.000	29.0
270.0 *	137.0	100.0	7.78	6.000	28.3
280.0	135.6	101.4	7.78	6.000	28.5
290.0	130.9	106.1	7.78	6.000	29.1
300.0	125.5	111.5	7.78	6.000	29.8
310.0	121.4	115.6	7.78	6.000	30.2
315.0 *	120.1	116.9	7.78	6.000	30.4
320.0	119.1	117.9	7.78	6.000	30.5
330.0	119.9	117.1	7.78	6.000	30.4
340.0	119.4	117.6	7.78	6.000	30.5
350.0	119.8	117.2	7.78	6.000	30.4

AVERAGE(*) = 136.5 meters

TABLE 29.0(a)

WQUL PREDICTED 60 dBu CONTOUR

Four Him Enterprises, LLC
Potosi, MO

WQUL CH249A
40.0 dBu CONTOUR
(F(50,10) Curves Utilized)

BEARING (Degrees)	AVERAGE TERRAIN ELEVATION (meters)	ANTENNA HAAT (meters)	HORIZONTAL ERP (dBk) (kW)		DISTANCE TO CONTOUR (km)
0.0 *	126.3	110.7	7.78	6.000	88.4
10.0	132.1	104.9	7.78	6.000	87.5
20.0	137.8	99.2	7.78	6.000	86.5
30.0	140.1	96.9	7.78	6.000	86.1
40.0	143.6	93.4	7.78	6.000	85.5
45.0 *	145.9	91.1	7.78	6.000	85.1
50.0	148.4	88.6	7.78	6.000	84.7
60.0	153.0	84.0	7.78	6.000	83.9
70.0	150.3	86.7	7.78	6.000	84.4
80.0	148.8	88.2	7.78	6.000	84.6
90.0 *	147.1	89.9	7.78	6.000	84.9
100.0	143.4	93.6	7.78	6.000	85.6
110.0	144.2	92.8	7.78	6.000	85.4
120.0	139.2	97.8	7.78	6.000	86.3
130.0	138.9	98.1	7.78	6.000	86.3
135.0 *	141.5	95.5	7.78	6.000	85.9
140.0	142.1	94.9	7.78	6.000	85.8
150.0	142.4	94.6	7.78	6.000	85.7
160.0	148.2	88.8	7.78	6.000	84.7
170.0	144.5	92.5	7.78	6.000	85.4
180.0 *	142.9	94.1	7.78	6.000	85.7
190.0	141.3	95.7	7.78	6.000	85.9
200.0	147.9	89.1	7.78	6.000	84.8
210.0	138.5	98.5	7.78	6.000	86.4
220.0	132.9	104.1	7.78	6.000	87.4
225.0 *	131.4	105.6	7.78	6.000	87.6
230.0	129.9	107.1	7.78	6.000	87.8
240.0	128.6	108.4	7.78	6.000	88.0
250.0	128.6	108.4	7.78	6.000	88.1
260.0	131.6	105.4	7.78	6.000	87.6
270.0 *	137.0	100.0	7.78	6.000	86.7
280.0	135.6	101.4	7.78	6.000	86.9
290.0	130.9	106.1	7.78	6.000	87.7
300.0	125.5	111.5	7.78	6.000	88.5
310.0	121.4	115.6	7.78	6.000	89.2
315.0 *	120.1	116.9	7.78	6.000	89.4
320.0	119.1	117.9	7.78	6.000	89.6
330.0	119.9	117.1	7.78	6.000	89.4
340.0	119.4	117.6	7.78	6.000	89.5
350.0	119.8	117.2	7.78	6.000	89.4

AVERAGE(*) = 136.5 meters

TABLE 29.0(b)

WQUL PREDICTED 40 dBu CONTOUR

Four Him Enterprises, LLC
Potosi, MO

KYKY CH251C1
60.0 dBu CONTOUR
(F(50,50) Curves Utilized)

BEARING (Degrees)	AVERAGE TERRAIN ELEVATION (meters)	ANTENNA HAAT (meters)	HORIZONTAL ERP (dBk) (kW)		DISTANCE TO CONTOUR (km)
0.0 *	164.4	287.6	20.00	100.000	71.4
10.0	163.3	288.7	20.00	100.000	71.5
20.0	154.2	297.8	20.00	100.000	72.2
30.0	148.8	303.2	20.00	100.000	72.6
40.0	147.7	304.3	20.00	100.000	72.7
45.0 *	146.2	305.8	20.00	100.000	72.8
50.0	148.3	303.7	20.00	100.000	72.7
60.0	142.2	309.8	20.00	100.000	73.1
70.0	141.1	310.9	20.00	100.000	73.2
80.0	134.0	318.0	20.00	100.000	73.7
90.0 *	128.9	323.1	20.00	100.000	74.1
100.0	124.9	327.1	20.00	100.000	74.4
110.0	130.0	322.0	20.00	100.000	74.0
120.0	135.2	316.8	20.00	100.000	73.6
130.0	134.7	317.3	20.00	100.000	73.7
135.0 *	129.4	322.6	20.00	100.000	74.1
140.0	128.8	323.2	20.00	100.000	74.1
150.0	129.5	322.5	20.00	100.000	74.1
160.0	134.8	317.2	20.00	100.000	73.7
170.0	152.3	299.7	20.00	100.000	72.4
180.0 *	158.1	293.9	20.00	100.000	71.9
190.0	148.3	303.7	20.00	100.000	72.7
200.0	157.2	294.8	20.00	100.000	72.0
210.0	158.8	293.2	20.00	100.000	71.8
220.0	156.8	295.2	20.00	100.000	72.0
225.0 *	159.6	292.4	20.00	100.000	71.8
230.0	160.9	291.1	20.00	100.000	71.7
240.0	162.0	290.0	20.00	100.000	71.6
250.0	162.1	289.9	20.00	100.000	71.6
260.0	156.1	295.9	20.00	100.000	72.1
270.0 *	171.2	280.8	20.00	100.000	70.8
280.0	170.1	281.9	20.00	100.000	70.9
290.0	183.3	268.7	20.00	100.000	69.8
300.0	178.8	273.2	20.00	100.000	70.2
310.0	171.9	280.1	20.00	100.000	70.8
315.0 *	167.8	284.2	20.00	100.000	71.1
320.0	164.0	288.0	20.00	100.000	71.4
330.0	173.4	278.6	20.00	100.000	70.6
340.0	170.3	281.7	20.00	100.000	70.9
350.0	166.6	285.4	20.00	100.000	71.2

AVERAGE(*) = 153.2 meters

TABLE 29.1(a)

KYKY PREDICTED 60 dBu CONTOUR

Four Him Enterprises, LLC
Potosi, MO

KYKY CH251C1
100.0 dBu CONTOUR
(F(50,10) Curves Utilized)

BEARING (Degrees)	AVERAGE TERRAIN ELEVATION (meters)	ANTENNA HAAT (meters)	HORIZONTAL ERP (dBk) (kW)		DISTANCE TO CONTOUR (km)
0.0 *	164.4	287.6	20.00	100.000	9.9
10.0	163.3	288.7	20.00	100.000	9.9
20.0	154.2	297.8	20.00	100.000	10.1
30.0	148.8	303.2	20.00	100.000	10.2
40.0	147.7	304.3	20.00	100.000	10.2
45.0 *	146.2	305.8	20.00	100.000	10.2
50.0	148.3	303.7	20.00	100.000	10.2
60.0	142.2	309.8	20.00	100.000	10.3
70.0	141.1	310.9	20.00	100.000	10.3
80.0	134.0	318.0	20.00	100.000	10.4
90.0 *	128.9	323.1	20.00	100.000	10.5
100.0	124.9	327.1	20.00	100.000	10.5
110.0	130.0	322.0	20.00	100.000	10.5
120.0	135.2	316.8	20.00	100.000	10.4
130.0	134.7	317.3	20.00	100.000	10.4
135.0 *	129.4	322.6	20.00	100.000	10.5
140.0	128.8	323.2	20.00	100.000	10.5
150.0	129.5	322.5	20.00	100.000	10.5
160.0	134.8	317.2	20.00	100.000	10.4
170.0	152.3	299.7	20.00	100.000	10.1
180.0 *	158.1	293.9	20.00	100.000	10.0
190.0	148.3	303.7	20.00	100.000	10.2
200.0	157.2	294.8	20.00	100.000	10.0
210.0	158.8	293.2	20.00	100.000	10.0
220.0	156.8	295.2	20.00	100.000	10.1
225.0 *	159.6	292.4	20.00	100.000	10.0
230.0	160.9	291.1	20.00	100.000	10.0
240.0	162.0	290.0	20.00	100.000	10.0
250.0	162.1	289.9	20.00	100.000	10.0
260.0	156.1	295.9	20.00	100.000	10.1
270.0 *	171.2	280.8	20.00	100.000	9.8
280.0	170.1	281.9	20.00	100.000	9.8
290.0	183.3	268.7	20.00	100.000	9.6
300.0	178.8	273.2	20.00	100.000	9.7
310.0	171.9	280.1	20.00	100.000	9.8
315.0 *	167.8	284.2	20.00	100.000	9.9
320.0	164.0	288.0	20.00	100.000	9.9
330.0	173.4	278.6	20.00	100.000	9.8
340.0	170.3	281.7	20.00	100.000	9.8
350.0	166.6	285.4	20.00	100.000	9.9

AVERAGE(*) = 153.2 meters

TABLE 29.1(b)

KYKY PREDICTED 100 dBu CONTOUR

Four Him Enterprises, LLC
Potosi, MO

KHZR PROPOSED CH249C2
60.0 dBu CONTOUR
(F(50,50) Curves Utilized)

BEARING (Degrees)	AVERAGE TERRAIN ELEVATION (meters)	ANTENNA HAAT (meters)	HORIZONTAL ERP (dBk) (kW)		DISTANCE TO CONTOUR (km)
0.0 *	248.8	234.2	14.23	26.500	54.4
10.0	240.5	242.5	14.23	26.500	55.0
20.0	260.1	222.9	14.23	26.500	53.5
30.0	267.0	216.0	14.23	26.500	53.0
40.0	253.9	229.1	14.23	26.500	54.0
45.0 *	251.7	231.3	14.23	26.500	54.2
50.0	240.8	242.2	14.23	26.500	55.0
60.0	239.6	243.4	14.23	26.500	55.1
70.0	240.0	243.0	14.23	26.500	55.1
80.0	238.2	244.8	14.23	26.500	55.2
90.0 *	245.9	237.1	14.23	26.500	54.6
100.0	261.9	221.1	14.23	26.500	53.4
110.0	278.7	204.3	14.23	26.500	52.0
120.0	283.1	199.9	14.23	26.500	51.6
130.0	274.4	208.6	14.23	26.500	52.3
135.0 *	275.7	207.3	14.23	26.500	52.2
140.0	275.7	207.3	14.23	26.500	52.2
150.0	278.4	204.6	14.23	26.500	52.0
160.0	286.0	197.0	14.23	26.500	51.4
170.0	302.1	180.9	14.23	26.500	50.0
180.0 *	307.4	175.6	14.23	26.500	49.5
190.0	312.3	170.7	14.23	26.500	49.0
200.0	323.2	159.8	14.23	26.500	47.8
210.0	329.8	153.2	14.23	26.500	46.9
220.0	327.7	155.3	14.23	26.500	47.2
225.0 *	320.9	162.1	14.23	26.500	48.1
230.0	317.6	165.4	14.23	26.500	48.4
240.0	306.2	176.8	14.23	26.500	49.7
250.0	299.4	183.6	14.23	26.500	50.3
260.0	299.5	183.5	14.23	26.500	50.3
270.0 *	286.9	196.1	14.23	26.500	51.3
280.0	275.8	207.2	14.23	26.500	52.2
290.0	272.6	210.4	14.23	26.500	52.5
300.0	254.2	228.8	14.23	26.500	54.0
310.0	254.4	228.6	14.23	26.500	54.0
315.0 *	268.4	214.6	14.23	26.500	52.8
320.0	270.8	212.2	14.23	26.500	52.6
330.0	263.5	219.5	14.23	26.500	53.2
340.0	267.2	215.8	14.23	26.500	52.9
350.0	259.4	223.6	14.23	26.500	53.6

AVERAGE(*) = 275.7 meters

TABLE 29.2(a)

KHZR PROPOSED 60 dBu CONTOUR

Four Him Enterprises, LLC
Potosi, MO

KHZR PROPOSED CH249C2
100.0 dBu CONTOUR
(F(50,10) Curves Utilized)

BEARING (Degrees)	AVERAGE TERRAIN ELEVATION (meters)	ANTENNA HAAT (meters)	HORIZONTAL ERP (dBk) (kW)		DISTANCE TO CONTOUR (km)
0.0 *	248.8	234.2	14.23	26.500	6.2
10.0	240.5	242.5	14.23	26.500	6.3
20.0	260.1	222.9	14.23	26.500	6.0
30.0	267.0	216.0	14.23	26.500	5.9
40.0	253.9	229.1	14.23	26.500	6.1
45.0 *	251.7	231.3	14.23	26.500	6.1
50.0	240.8	242.2	14.23	26.500	6.3
60.0	239.6	243.4	14.23	26.500	6.3
70.0	240.0	243.0	14.23	26.500	6.3
80.0	238.2	244.8	14.23	26.500	6.3
90.0 *	245.9	237.1	14.23	26.500	6.2
100.0	261.9	221.1	14.23	26.500	6.0
110.0	278.7	204.3	14.23	26.500	5.8
120.0	283.1	199.9	14.23	26.500	5.7
130.0	274.4	208.6	14.23	26.500	5.8
135.0 *	275.7	207.3	14.23	26.500	5.8
140.0	275.7	207.3	14.23	26.500	5.8
150.0	278.4	204.6	14.23	26.500	5.8
160.0	286.0	197.0	14.23	26.500	5.7
170.0	302.1	180.9	14.23	26.500	5.5
180.0 *	307.4	175.6	14.23	26.500	5.4
190.0	312.3	170.7	14.23	26.500	5.4
200.0	323.2	159.8	14.23	26.500	5.2
210.0	329.8	153.2	14.23	26.500	5.1
220.0	327.7	155.3	14.23	26.500	5.1
225.0 *	320.9	162.1	14.23	26.500	5.2
230.0	317.6	165.4	14.23	26.500	5.3
240.0	306.2	176.8	14.23	26.500	5.5
250.0	299.4	183.6	14.23	26.500	5.5
260.0	299.5	183.5	14.23	26.500	5.5
270.0 *	286.9	196.1	14.23	26.500	5.7
280.0	275.8	207.2	14.23	26.500	5.8
290.0	272.6	210.4	14.23	26.500	5.9
300.0	254.2	228.8	14.23	26.500	6.1
310.0	254.4	228.6	14.23	26.500	6.1
315.0 *	268.4	214.6	14.23	26.500	5.9
320.0	270.8	212.2	14.23	26.500	5.9
330.0	263.5	219.5	14.23	26.500	6.0
340.0	267.2	215.8	14.23	26.500	5.9
350.0	259.4	223.6	14.23	26.500	6.0

AVERAGE(*) = 275.7 meters

TABLE 29.2(b)

KHZR PROPOSED 100 dBu CONTOUR

Four Him Enterprises, LLC
Potosi, MO

KHZR PROPOSED CH249C2
40.0 dBu CONTOUR
(F(50,10) Curves Utilized)

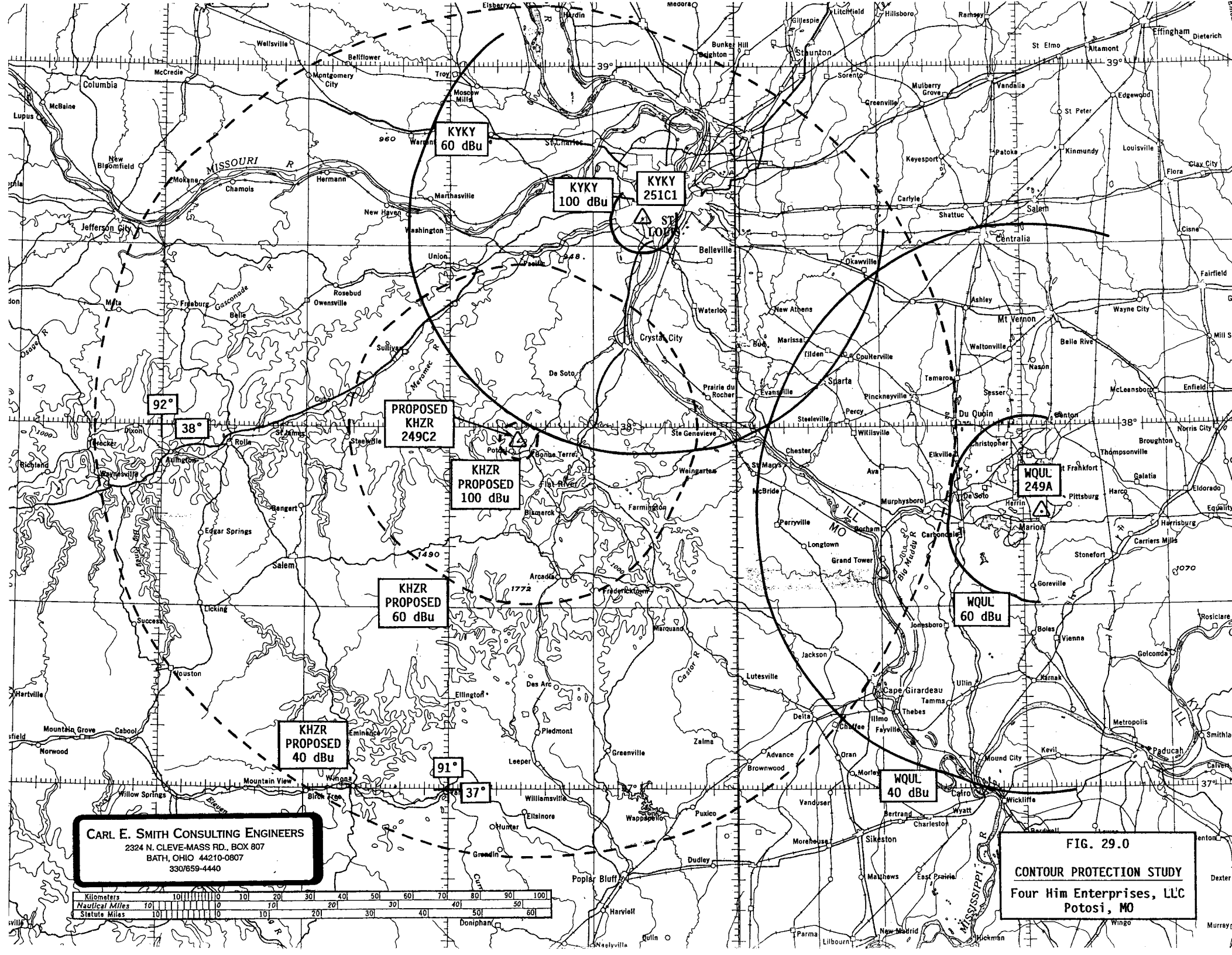
BEARING (Degrees)	AVERAGE TERRAIN ELEVATION (meters)	ANTENNA HAAT (meters)	HORIZONTAL ERP (dBk) (kW)		DISTANCE TO CONTOUR (km)
0.0 *	248.8	234.2	14.23	26.500	133.9
10.0	240.5	242.5	14.23	26.500	134.9
20.0	260.1	222.9	14.23	26.500	132.6
30.0	267.0	216.0	14.23	26.500	131.8
40.0	253.9	229.1	14.23	26.500	133.3
45.0 *	251.7	231.3	14.23	26.500	133.6
50.0	240.8	242.2	14.23	26.500	134.9
60.0	239.6	243.4	14.23	26.500	135.0
70.0	240.0	243.0	14.23	26.500	134.9
80.0	238.2	244.8	14.23	26.500	135.1
90.0 *	245.9	237.1	14.23	26.500	134.3
100.0	261.9	221.1	14.23	26.500	132.4
110.0	278.7	204.3	14.23	26.500	130.4
120.0	283.1	199.9	14.23	26.500	129.9
130.0	274.4	208.6	14.23	26.500	130.9
135.0 *	275.7	207.3	14.23	26.500	130.8
140.0	275.7	207.3	14.23	26.500	130.8
150.0	278.4	204.6	14.23	26.500	130.4
160.0	286.0	197.0	14.23	26.500	129.6
170.0	302.1	180.9	14.23	26.500	127.7
180.0 *	307.4	175.6	14.23	26.500	127.0
190.0	312.3	170.7	14.23	26.500	126.4
200.0	323.2	159.8	14.23	26.500	124.9
210.0	329.8	153.2	14.23	26.500	123.9
220.0	327.7	155.3	14.23	26.500	124.2
225.0 *	320.9	162.1	14.23	26.500	125.2
230.0	317.6	165.4	14.23	26.500	125.7
240.0	306.2	176.8	14.23	26.500	127.2
250.0	299.4	183.6	14.23	26.500	128.0
260.0	299.5	183.5	14.23	26.500	128.0
270.0 *	286.9	196.1	14.23	26.500	129.4
280.0	275.8	207.2	14.23	26.500	130.8
290.0	272.6	210.4	14.23	26.500	131.1
300.0	254.2	228.8	14.23	26.500	133.3
310.0	254.4	228.6	14.23	26.500	133.3
315.0 *	268.4	214.6	14.23	26.500	131.6
320.0	270.8	212.2	14.23	26.500	131.3
330.0	263.5	219.5	14.23	26.500	132.2
340.0	267.2	215.8	14.23	26.500	131.8
350.0	259.4	223.6	14.23	26.500	132.7

AVERAGE(*) = 275.7 meters

TABLE 29.2(c)

KHZR PROPOSED 40 dBu CONTOUR

Four Him Enterprises, LLC
Potosi, MO



CARL E. SMITH CONSULTING ENGINEERS
2324 N. CLEVE-MASS RD., BOX 807
BATH, OHIO 44210-0807
330/659-4440

FIG. 29.0
CONTOUR PROTECTION STUDY
Four Him Enterprises, LLC
Potosi, MO

